

## Lake Sutherland Dam Sunny Day Dam Breach Overview

**San Diego County, California**  
**State Dam ID: 8.010**  
**& National Dam ID: CA00114**






Modeling Date:	April-2018
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Map Creation Date:	September-2018
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By: J. Weber

### Legend

-  Cross Section  
 Flow Path  
 Detailed Sheet Extent  
 Approx. Maximum Flooding Extent

**Notes:**

1. This inundation map has been prepared in a manner consistent with that level of care and skill ordinarily exercised by Kleinfelder's profession practicing in the same locality, under similar conditions and at the date services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations, data, and the current guidance and requirements outlined by the California DSDO.
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3. All elevations are reported in the NAVD88 vertical datum.
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5. Mapped depths and arrival times will vary based on breach conditions, hydrologic conditions, modeling assumptions, and other factors. Emergency action plans that utilize these maps may want to consider a factor of safety for arrival times.



Engineer Elizabeth Bissonnette

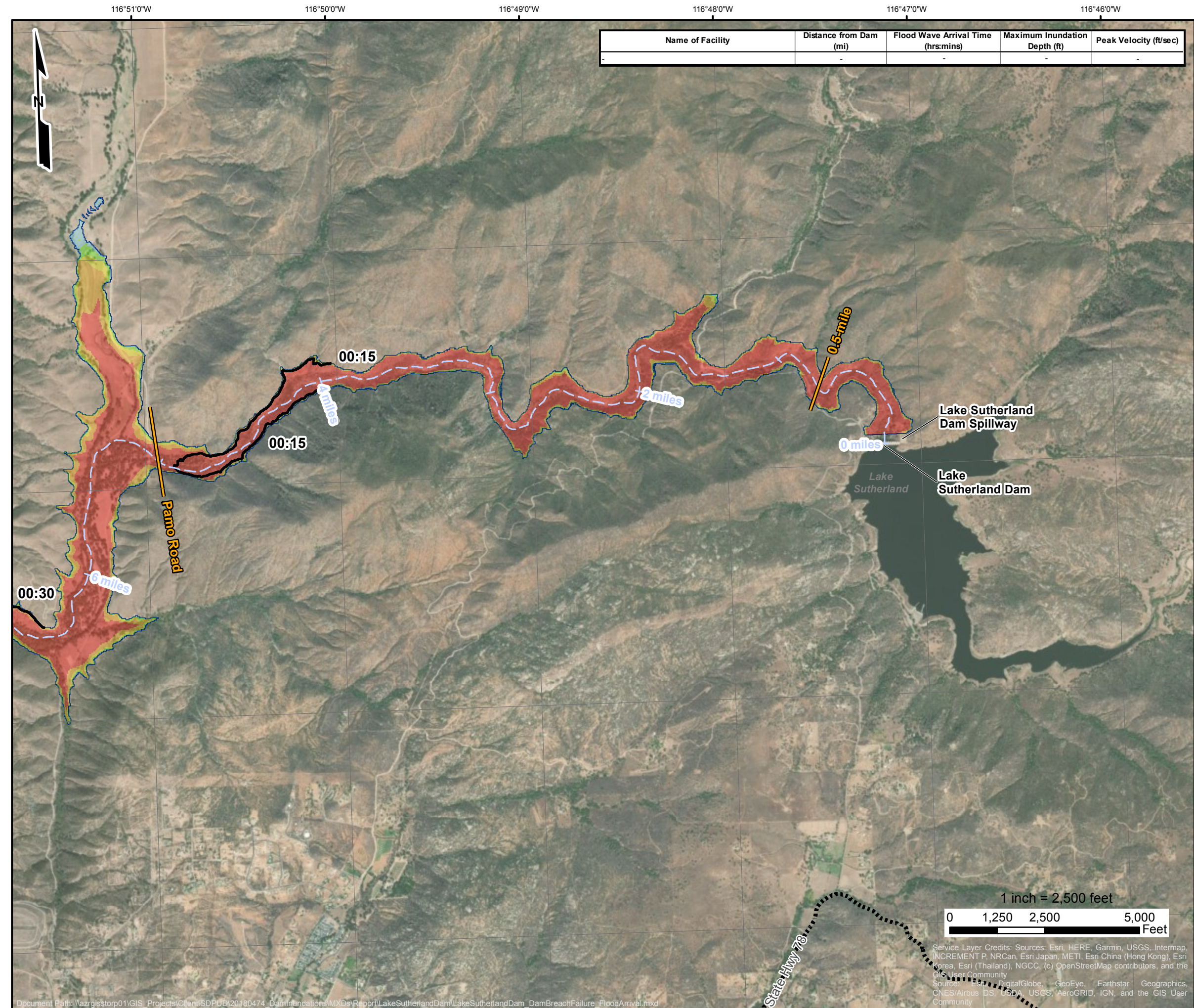
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### Lake Sutherland Dam Sunny Day Dam Breach Flood Arrival Times

San Diego County, California  
State Dam ID: 8.010  
& National Dam ID: CA00114

Modeling Date: April-2018  
Map Creation Date: September-2018  
By: J. Weber

#### Legend

##### Critical Structures

- Critical Road Point
- CalFire Facility
- Licensed Healthcare Facility
- Law Enforcement Facility
- School

- Critical Road
- Approx. Time to 1 Foot Depth (hrs:mins)
- Cross Section
- Flow Path
- Approx. Maximum Flooding Extent
- Municipal Boundary

##### Maximum Inundation Depth (ft)

1 to 2
2 to 5
5 to 10
10 to 20
20+

\* Variations in color are dependent upon the background imagery.

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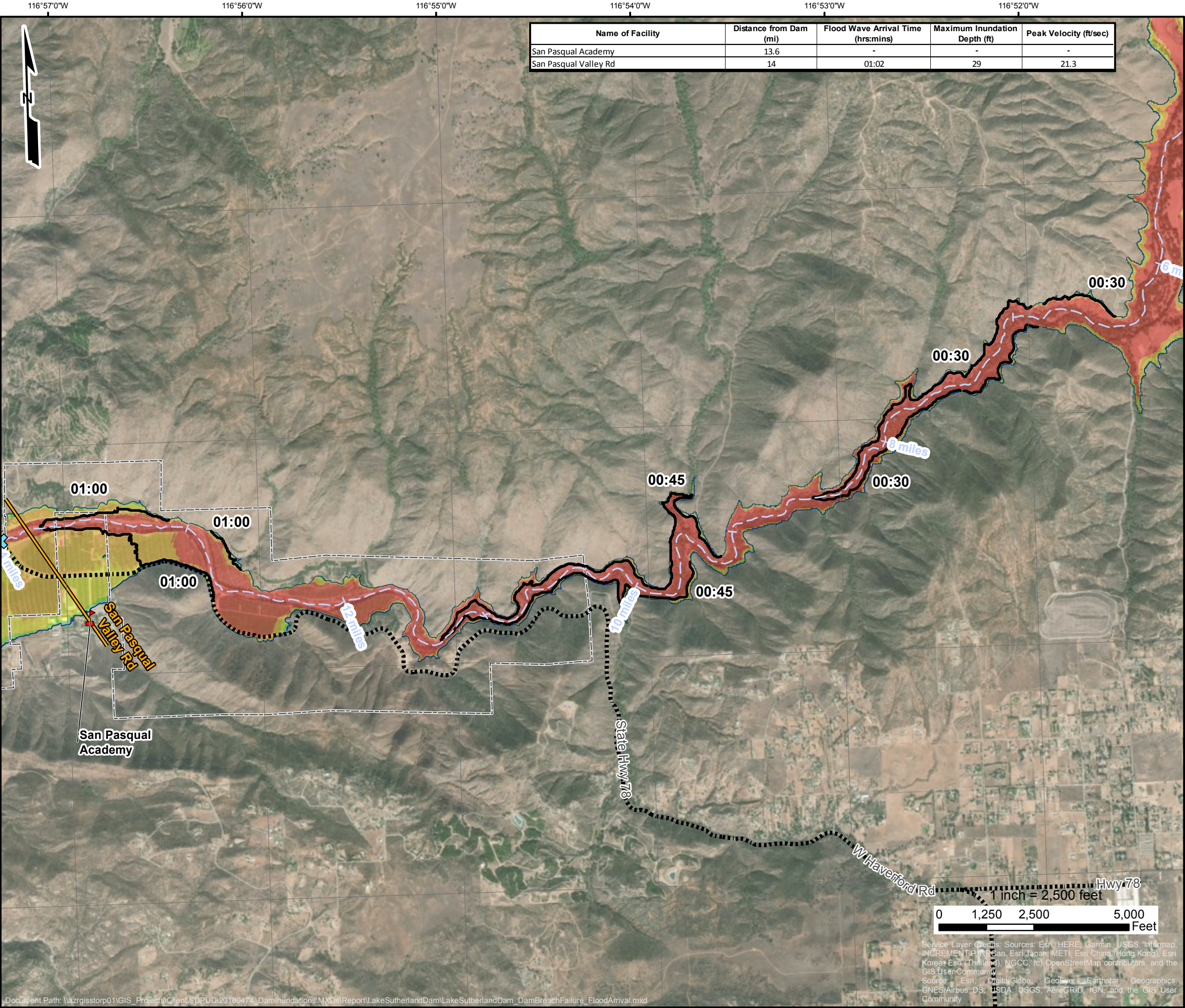
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### Lake Sutherland Dam Sunny Day Dam Breach Flood Arrival Times

San Diego County, California  
State Dam ID: 8.010  
& National Dam ID: CA00114

0 5 10 Miles

Modeling Date: April-2018  
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**Legend**

**Critical Structures**

- Critical Road Point
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- Licensed Healthcare Facility
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- School

Critical Road

Approx. Time to 1 Foot Depth (hrs:mins)

Cross Section

Flow Path

Approx. Maximum Flooding Extent

Municipal Boundary

**Maximum Inundation Depth (ft)**

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- 2 to 5
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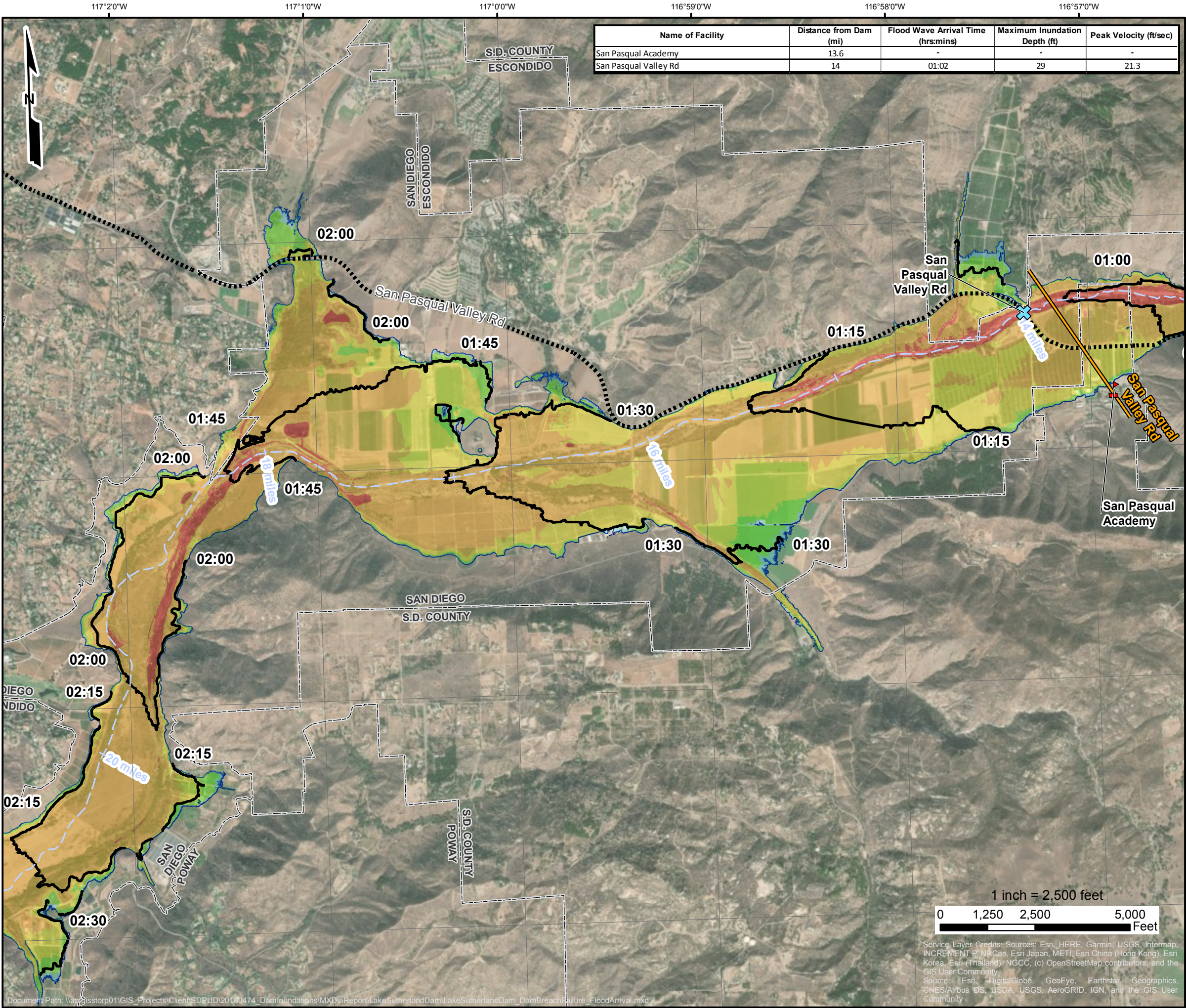
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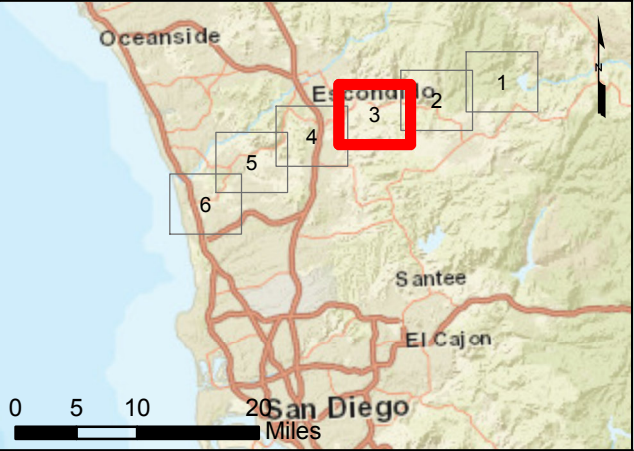
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Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
San Pasqual Academy	13.6	-	-	-
San Pasqual Valley Rd	14	01:02	29	21.3



**Lake Sutherland Dam  
Sunny Day Dam Breach  
Flood Arrival Times  
San Diego County, California  
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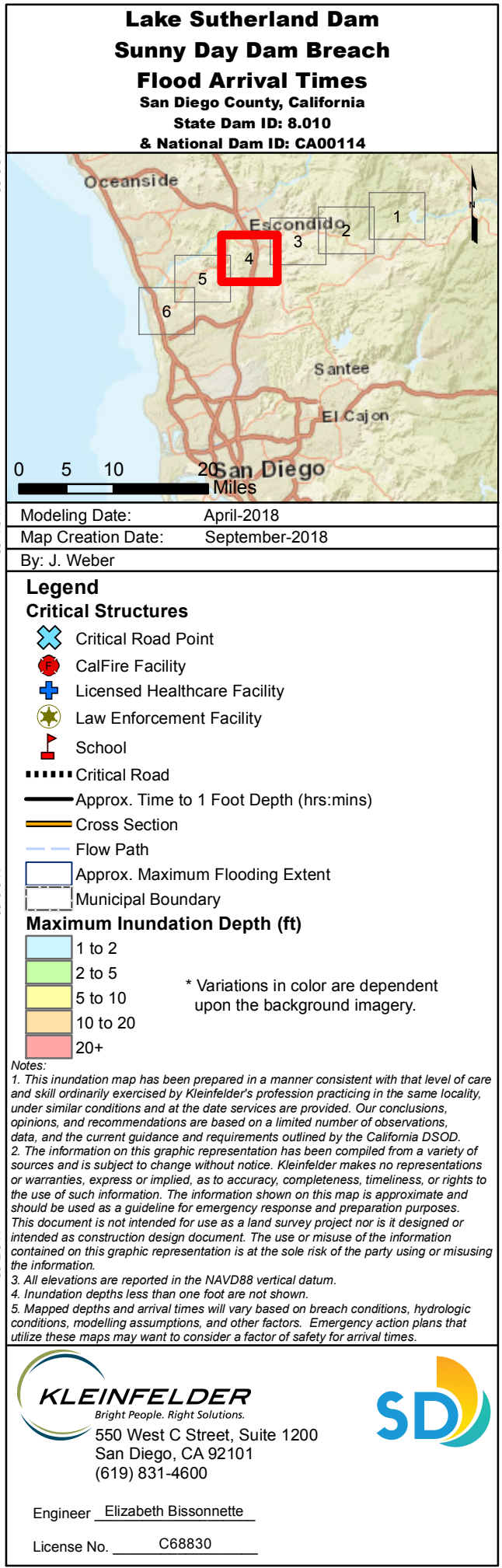
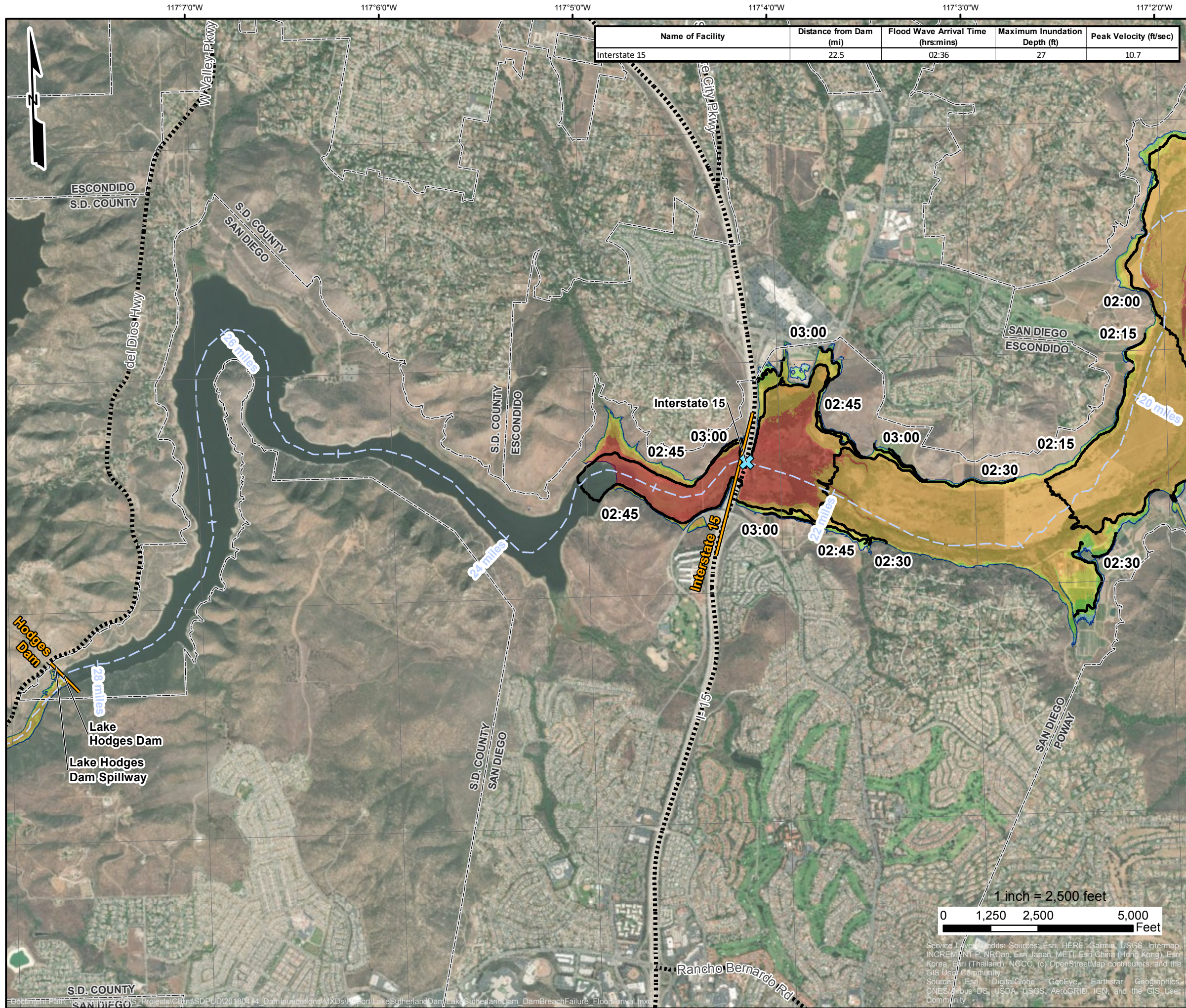
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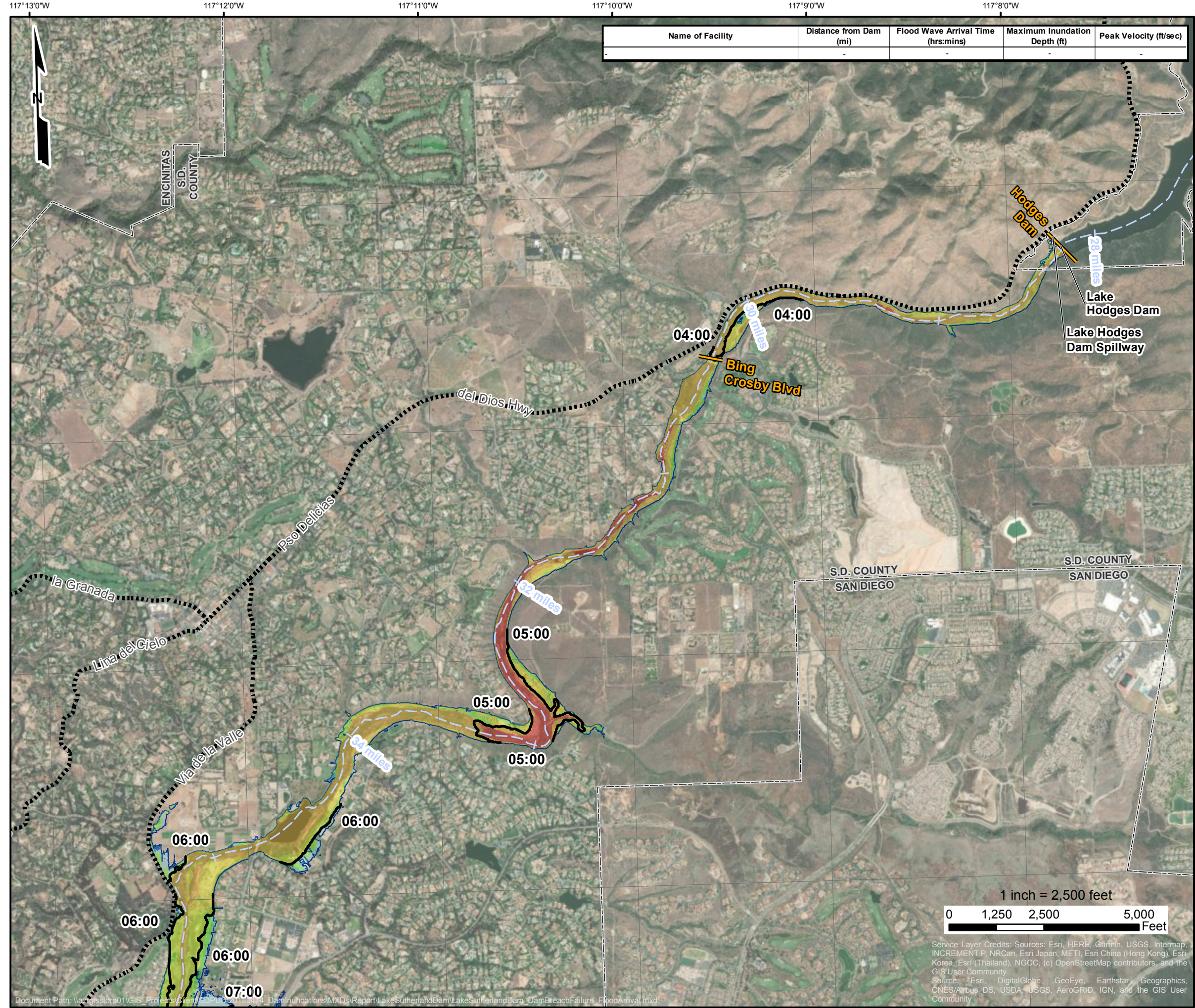
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### Lake Sutherland Dam Sunny Day Dam Breach Flood Arrival Times

San Diego County, California  
State Dam ID: 8.010  
& National Dam ID: CA00114

0 5 10 Miles

Modeling Date: April-2018  
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#### Legend

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Approx. Maximum Flooding Extent

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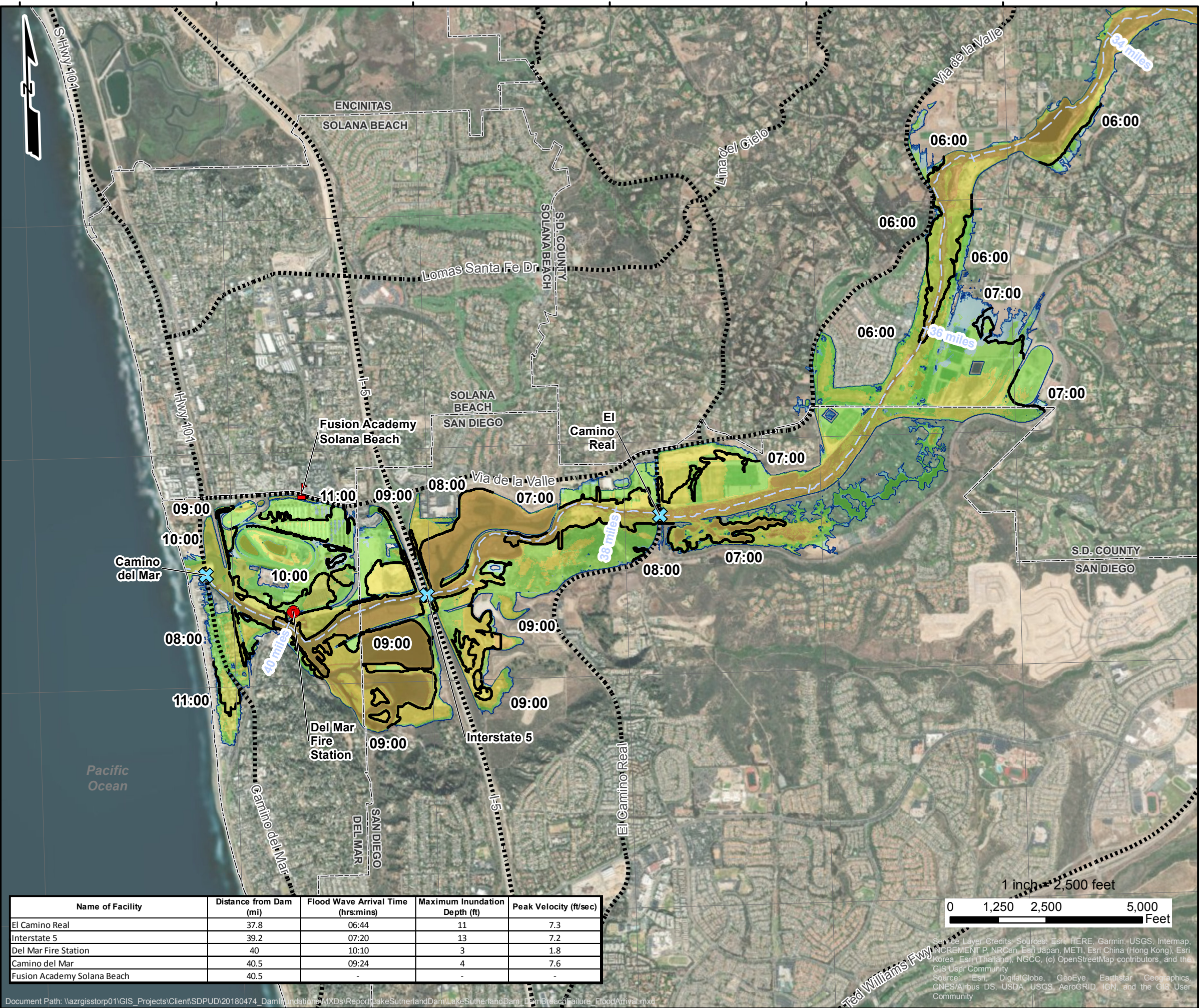
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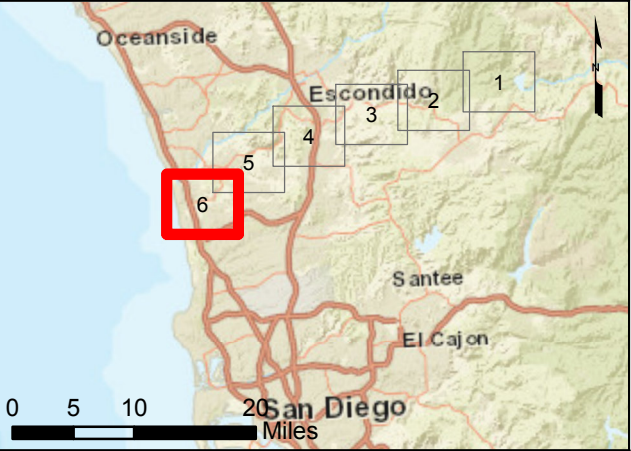
117°17'0"W 117°16'0"W 117°15'0"W 117°14'0"W 117°13'0"W 117°12'0"W



Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
El Camino Real	37.8	06:44	11	7.3
Interstate 5	39.2	07:20	13	7.2
Del Mar Fire Station	40	10:10	3	1.8
Camino del Mar	40.5	09:24	4	7.6
Fusion Academy Solana Beach	40.5	-	-	-

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Lake Sutherland Dam  
Sunny Day Dam Breach  
Flood Arrival Times  
San Diego County, California  
State Dam ID: 8.010  
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**Legend**

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